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## HACH COMPANY -- 42532, MANVER HARDNESS INDICATOR -- 6810-00-798-9702

============= Product Identification ========================

Product ID:42532, MANVER HARDNESS INDICATOR

MSDS Date:07/03/2000

FSC:6810

NIIN:00-798-9702

Status Code:A

MSDS Number: CKZVN === Responsible Party ===

Company Name:HACH COMPANY Address:5600 LINDBERGH DR

Box:389

City:LOVELAND

State:CO ZIP:80539 Country:US

Info Phone Num:970-669-3050

Emergency Phon e Num:303-623-5716

Resp. Party Other MSDS Num.:M000635

CAGE:91224

=== Contractor Identification ===

Company Name: HACH CO Address: 5600 LINDBERGH DR

Box:389

City:LOVELAND

State:CO ZIP:80539 Country:US

Phone:970-669-3050/303-623-5716

CAGE:91224

Company Name: PROTRONICS CORP

Address:2411 11TH AVE S Box:City:GREAT FALLS

State:MT ZIP:59405 Country:US

Phone:888-452-9589/FAX: 406-452-0089

Contract Num:SP0450-01-M-D894

CAGE:06DN1

======= Composition/Information on Ingredients ========

Ingr

ed Name:PROPYLENE GLYCOL

CAS:57-55-6

RTECS #:TY2000000 Minumum % Wt:90. Maxumum % Wt:100.

Ingred Name: HYDROXYLAMINE HYDROCHLORIDE

CAS:5470-11-1

RTECS #:NC3675000

Minumum % Wt:1.

Maxumum % Wt:10.

Other REC Limits:LD50 ORAL=408MG/KG

Ingred Name: ISOPROPANOL

CAS:67-63-0

RTECS #:NT8050000

< Wt:5.

OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name: CALMAGITE

CAS:3147-14-6

< Wt:1.

========= Hazards Identification =============

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES: CAUSES IRRITATION. SKIN: MAY CAUSE IRRITATION & ALLERGIC REACTION. SKIN ABSORPTION: WILL BE ABSORBED THROUGH THE SKIN. EFFECTS SIMILAR TO THOSE OF INGESTION. INGESTION: VERY LARGE DOSES MAY CAUS E: CENTRAL VERVOUS SYSTEM DEPRESSION, DROWSINESS, DIZZINESS, INCOORDINATION, HEADACHE, ABDOMINAL CRAMPS, RAPID PULSE AND RESPIRATIONS,

CONVULSIONS.

HYDROXYLAMINE HYDROCHLORIDE CAUSES A DECREASED SUPPL Y OF OXYGEN TO THE TISSUES, BLUE DISCOLORATION OF THE SKIN, CONVULSIONS, DROP IN BLOOD PRESSURE AND COMMA. INHALATION: MAY CAUSE IRRITATION OF NOSE AND THROAT. TARGET ORGANS: CNS & RED BLOOD CELLS. CH RONIC:DAMAGE TO RED CELLS.

Explanation of Carcinogenicity:THIS PRODUCT DOES NOT CONTAIN ANY OSHA, IARC AND NTP LISTED CARCINOGEN. CONTAINS AN EXPERIMENTAL MUTAGEN AND EXPERIMENTAL TERATOGEN.

Effects of Ov

erexposure:CAUSES IRRITATION OR EYES & SKIN, ALLERGIC REACTION. INGESTION: VERY LARGE DOSES MAY CAUSE: CENTRAL VERVOUS SYSTEM DEPRESSION, DROWSINESS, DIZZINESS, INCOORDINATION, HEADACHE, ABDOMINAL CRAMPS RAPID PULSE AND RESPIRATIONS, CONVULSIONS. HYDROXYLAMINE HYDROCHLORIDE CAUSES A DECREASED SUPPLY OF OXYGEN TO THE TISSUES, BLUE DISCOLORATION OF THE SKIN, CONVULDIONS, DROP IN BLOOD PRESSURE AND COMMA. IN HALATION: IRRITATION OF NOSE AND THROAT.

Medical Cond Aggra vated by Exposure:EYE, SKIN AND RESPIRATORY CONDITIONS.

First Aid:EYE CONTACT: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. CALL PHYSICIAN. SKIN: WASH WITH SOAP AND PLENTY OF WATER. CALL A PHYSICIAN IF IRRTTION DEVELOPS. INGESTION: DO NOT INDUCE VOMITING. GIVE 1-2 GLASSES OF WATER. CALL PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: REMOVE TO FRESH AIR.

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======== Fire Fighting Measures ==============

Flash Point Method:CC Flash Point:=25.7C, 78.3F

Autoignition Temp: Autoignition Temp Text: ND

Lower Limits:ND Upper Limits:ND

Extinguishing Media:ALCOHOL FOAM

Fire Fighting Procedures: AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND AND FULL PROTECTIVE GEAR.

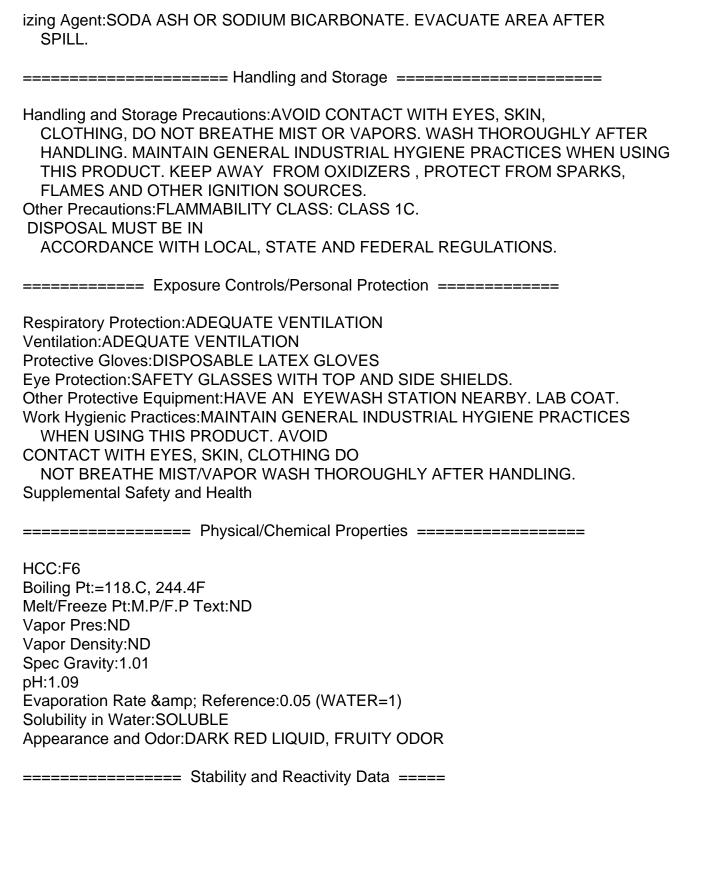
Unusual Fire/Explosion Hazard: MAY REACT VIOLENTLY WITH STRONG OXIDIZERS. DO NOT EXPOSE TO SPARKS OR OTHER IGNITION SOURCES.

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Accidental Release Measures ==========

Spill Release Procedures: ELIMINATE ALL SOURCES OF IGNITION. DO NOT BREATHE THE FUMES. USE ONLY NON-SPARKING TOOLS. COVER SPILLED MATERIAL WITH AN ALKALI, SUCH AS SODA ASH OR SODIUM BICARBONTE. SCOOP UP SLURRY INTO A LARGE BEA KER. DILUTE WITH A LARGE EXCESS OF WATER. FILTER TO REMOVE SOLIDS. FLUSH THE SPILLED MATRIALS TO THE DRAIN WITH A LARGE EXCESS OF WATER. DECONTMINATE THE AREA OF THE SPILL WITH A SOAP SOLUTION.

Neutral



========= Stability Indicator/Materials to Avoid:YES INCOMPATIBLE WITH OXIDIZERS. Stability Condition to Avoid: CONTACT WITH HEAT, SPARKS, OPEN FLAMES OR OTHER IGNITION SOURCES. HEATING TO DECOMPOSITION. Hazardous Decomposition Products: TOXIC FUMES OF CHLORIDES, CARBON MONOXIDE, CARBON DIOXIDE. Conditions to Avoid Polymerization: WILL NOT OCCUR. ======== Toxicological Information ============= Toxicological Information: PRPYLENE GLYCOL: LD50 ORAL RAT = 20 G/KG. YDROXYLAMINE HYDROCHLORIDE: LD50 ORAL MOUSE = 408 MG/KG. ISOPROPANOL: LD50 ORAL RAT= 5045 MG/KG, ORAL HUMAN LDL0= 2770 MG/KG, CALMAGITE: LD50 ORAL RAT> 5000 MG/KG. Ecological: NO ECOLOGICAL DATA AVAILABLE FOR THIS PRODUCT AND ITS INGREDIENTS. ======= Disposal Considerations ============ Waste Disposal Methods: DILUTE TO 3 TO 5 TIMES THE VOLUME WITH COLD WATER. ADJUST TO A PH BETWEEN 6 A ND 9 WITH AN ALKALI, SUCH AS SODA

ASH OR SODIUM BICARBONATE. OPEN COLD WATER TAP COMPLETELY, SLOWLY POUR THE REACTED MATERI AL TO THE DRAIN. RINSE EMPTY CONTAINERS THREE TIMES WITH AN APPROPRIATE SOLVENT. DISPOSE OF EMPY CON TAINER AS NORMAL TRASH.

======= MSDS Transport Information ===========

Transport Information:DOT/ICAO/IMO PROPER SHIPPING NAME: FLAMMABLE LIQUID, CORROSIVE, N.O.S (